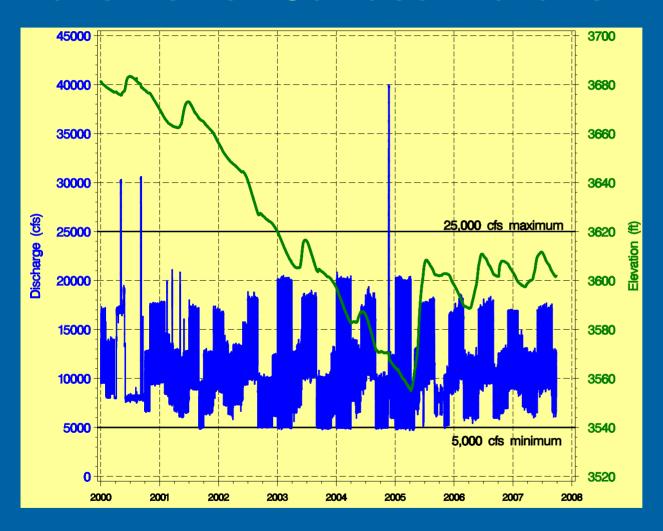


Lake Powell and GCD Release Water-Quality Update

TWG Meeting Oct 2-3, 2007 Bill Vernieu, GCMRC

Lake Powell Surface Elevation 2000-2007



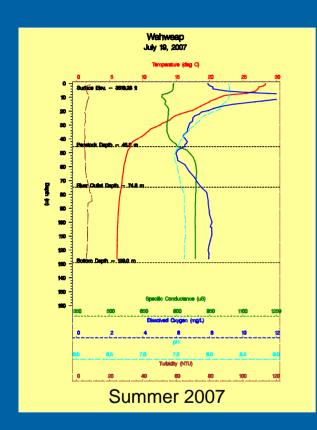
Minimum reservoir elevation

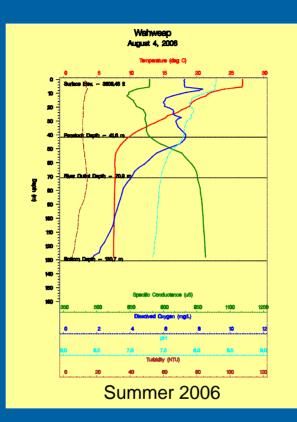
- **2007 3597 ft**
- **2006 3589 ft**

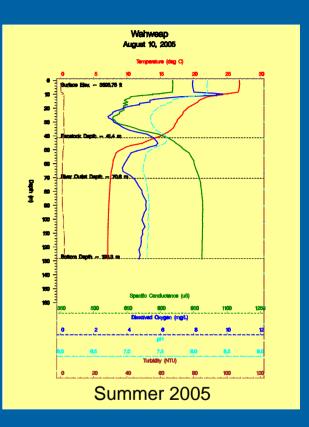
Apr-Jul Unreg Inflow

- 2007 Inflow 4.053 Maf (51%)
- 2006 Inflow5.320 Maf(67%)

Lake Powell Conditions 6/9/07



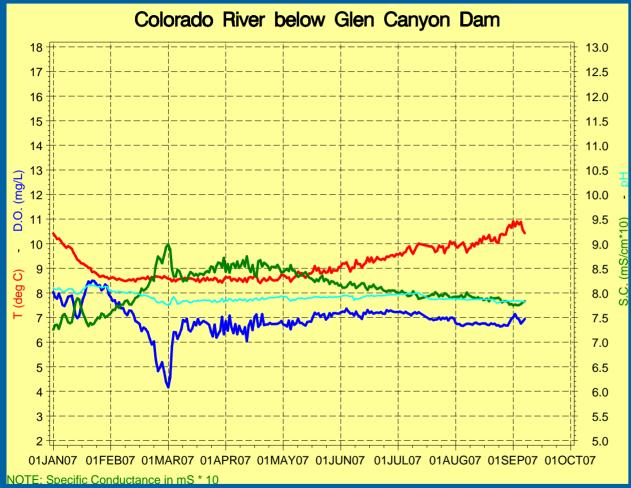




- •Hypolimnetic DO concentrations (blue line) have increased because of freshening from winter underflow in early 2007
- Large subsurface DO peak shows increased productivity in 2007
- •Low Dissolved Oxygen concentrations in 2008 unlikely



Glen Canyon Dam Release Water Quality - 2007



Temperature (red)

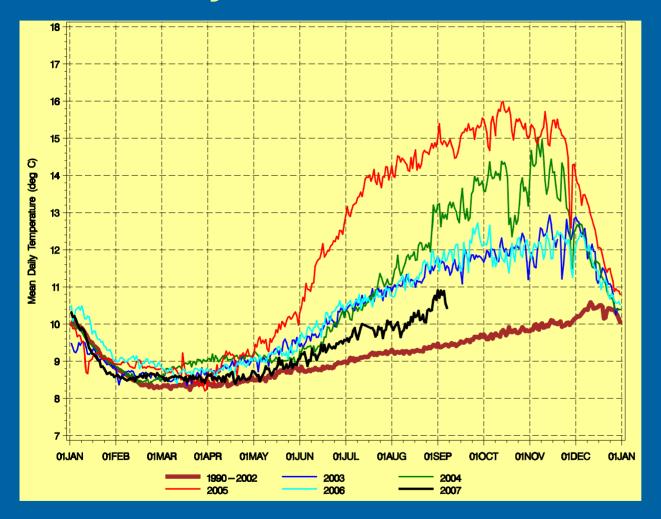
- Increased above normal values June 1
- Probable peak of 11-12° C in late November

Dissolved Oxygen (blue)

- Concentrations have remained steady at ~7mg/L since March
- February DO
 reduction because of
 hypolimnetic
 upwelling from
 winter underflow
 current



Glen Canyon Dam Release Temperatures



 2007 release temperatures lower than 2006 due to slightly higher minimum reservoir elevation and reduced runoff



Colorado R above Little Colorado R

